Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-17 (Canceled)

18. (Currently Amended) A method for generating a stereographic image comprising:

a calculating step of calculating Z-values of <u>pixels each pixel based on on the basis of</u>

image data of <u>pixels for that pixel</u>, the pixels forming an image, each Z-value being assigned to a pixel, and each Z-value representing a depth of an object corresponding to the pixel;

an adjusting step of adjusting a Z-value of a target pixel obtained in said calculating step using a Z-value of a pixel at least one individual pixel other than the target pixel; and

a generating step of determining an amount of displacement of a target pixel on the basis of an adjusted Z-value of the target pixel, and displacing the target pixel horizontally by the determined amount, to generate images for the right and the left eyes.

- 19. (Previously Presented) The method of Claim 18, wherein in said calculating step a Z-value of a target pixel is obtained by adding predetermined weights to color components of image data of the target pixel.
- 20. (Previously Presented) The method of Claim 19, wherein the weights are determined based on the ratio of cone cells sensitive of R, G, and B, respectively, which cones exist in a retina of a human eye.
- 21. (Previously Presented) The method of Claim 18, wherein in said adjusting step Z-values of pixels are adjusted so that a single step available for a Z-value of a pixel

corresponding to an object located backward in an original image express deeper depth than a single step available for a Z-value of a pixel corresponding to an object located forward in the original image.

22. (Previously Presented) The method of Claim 18, wherein in said adjusting step: tendency of Z-values of pixels in the image is analyzed by comparing a Z-value of a pixel within an area with a Z-value of a pixel within another area; and

when a result of the analysis agrees with a predetermined condition, a quantitative relation between the amount of displacement of the target pixel and the Z-value of the target pixel is reversed in said generating step.

23. (Previously Presented) The method of Claim 18, wherein in said adjusting step: an average of Z-values of pixels within an area which includes a target pixel is obtained; and

a Z-value of the target pixel is replaced by the obtained average.

24. (Previously Presented) The method of Claim 18 wherein in said adjusting step: a distribution of the Z-values of all pixels in the image and an average of all pixels in the image are obtained; and

deviation of the distribution is corrected using the obtained average.

25. (Previously Presented) The method of Claim 18, wherein in said adjusting step:

at least one object in the image represented by the image data is identified referring to

Z-values of pixels calculated in said calculating step; and

a Z-value of the target pixel is adjusted on the basis of a Z-value of a pixel located within an area corresponding to the identified object.

- 26. (Previously Presented) The method of Claim 18, wherein in said adjusting step a step size of quantization of the Z-value is determined based on a value of a parameter specified by a user.
- 27. (Previously Presented) The method of Claim 18, wherein in said adjusting step either an upper limit or a lower limit of the calculated Z-value is determined based on a value of a parameter specified by a user.
- 28. (Previously Presented) The method of Claim 18, further comprising a step of obtaining moving images comprised of a plurality of images, and wherein a stereographic image is generated from each image, to generate stereographic images corresponding to the moving images in real time.
- 29. (Currently Amended) A stereographic image generating apparatus for generating a stereographic image comprising:

a calculating means for calculating Z-values of <u>pixels</u> each <u>pixel</u> based on on the basis of image data of <u>pixels</u> for that <u>pixel</u>, the pixels forming an image, each Z-value being assigned to a pixel, and each Z-value representing a depth of an object corresponding to the pixel;

an adjusting means for adjusting a Z-value of a target pixel obtained in said calculating means using a Z-value of a pixel at least one individual pixel other than the target pixel; and

a generating means for determining an amount of displacement of a target pixel on the basis of an adjusted Z-value of the target pixel, and displacing the target pixel horizontally by the determined amount, to generate images for the right and the left eyes.

- 30. (Previously Presented) The apparatus of Claim 29, further comprising an obtaining means for obtaining from a user a parameter used in said adjusting means.
- 31. (Previously Presented) The apparatus of Claim 30 wherein the parameter represents either an upper limit or a lower limit of the Z-value.
- 32. (Previously Presented) The apparatus of Claim 30 wherein the parameter represents a step size of quantization of the Z-value.
- 33. (Previously Presented) The apparatus of Claim 30, further comprising: storing means for storing image data for the right and the left eyes; and displaying means for displaying an image represented by the image data stored in said storing means in compliance with a predetermined scheme.
- 34. (Currently Amended) A computer program product for causing a computer to function as:

a calculating means for calculating Z-values of-pixels each pixel based onen the basis of image data-of-pixels for that pixel, the pixels forming an image, each Z-value being assigned to a pixel, and each Z-value representing a depth of an object corresponding to the pixel;

an adjusting means for adjusting a Z-value of a target pixel obtained in said calculating means using a Z-value of a pixel at least one individual pixel other than the target pixel; and

a generating means for determining an amount of displacement of a target pixel on the basis of an adjusted Z-value of the target pixel, and displacing the target pixel horizontally by the determined amount, to generate images for the right and the left eyes.